

I claim:

1 1. A multi-layer monofilament consisting of multiple
2 layers that are extruded simultaneously in a single process step,
3 having a first layer made from first plastic, a second layer,
4 which is bonded directly to the first layer, made from a second
5 plastic, and a third layer, which is bonded directly to the
6 second layer, made from a third plastic wherein the second
7 plastic is a bonding agent for bonding the first and third.

1 2. The multi-layer monofilament according to claim 1
2 wherein the monofilament consists of three layers.

1 3. The multi-layer monofilament according to claim 1
2 wherein the monofilament has a core/sheath structure, that the
3 core of the monofilament is formed by the first plastic, the core
4 is at least partly enclosed by the second layer consisting of the
5 second plastic, and the second layer consisting of the second
6 plastic is at least partly enclosed by the third layer consisting
7 of the third plastic.

1 4. The multi-layer monofilament according to claim 1
2 wherein the monofilament has a side-by-side structure.

1 5. The multi-layer monofilament according to claim 1
2 wherein the second plastic is an ethylene-vinylacetate copolymer
3 or a methylacrylate copolymer.

1 6. The multi-layer monofilament according to claim 1
2 wherein one of the layers to be bonded by means of the second
3 plastic, is made from at least one plastic from the group which
4 consists of polyethylene terephthalate (PET), polyamide (PA),
5 polyamide copolymer, and polypropylene (PP).

1 7. The multi-layer monofilament according to claim 6,
2 the other of the two layers to be bonded by means of the second
3 plastic is made from at least one plastic selected from the group
4 which consists of polyethylene (PE), polyoxymethylene (POM),
5 polyphenylene sulphide (PPS), polymethylmethacrylate (PMMA),
6 polybutylene terephthalate (PBT), polyvinyl chloride (PVC),
7 polyether etherketone (PEEK), and polyethylene naphthalate (PEN).

1 8. A method of making a multilayer monofilament which
2 comprises the steps of:
3 spinning a liquified plastic core from a spinning
4 orifice;
5 applying two to said core at least one synthetic resin
6 bonding agent to form an inner sheath on said core as said core
7 emerges from said orifice; and

8 applying to said inner sheath an outer sheath of a
9 synthetic resin to which the synthetic resin of said inner sheath
10 can bond as said core passes out of said spinning orifice.

1 9. The method defined in claim 8 wherein each of said
2 sheaths is fed to said core through an annular slit surrounding
3 said core.

1 10. The method defined in claim 9 wherein the
2 monofilament formed by said core and said sheaths is stretched.

1 11. The method defined in claim 10 wherein the
2 monofilament is fixed after stretching.